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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	USSR (Kuybyshev Oblast)	REPORT		50X1
SUBJECT	Experimental Engine Development at Zavod 2, Kuybyshev	DATE DISTR.	27 April 1954	
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COUNTRY : USSR

DATE DISTR. 19 MAR 54

SUBJECT : Experimental Engine Development at Zavod 2,  
Kuybyshev

NO. OF PAGES 2

PLACE  
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T81 Turbine Starter

3. [redacted] such starters were built and [redacted] they were delivered to Zavod 2 in completed form from some other factory. [redacted] they may have come from Bezmyanka. [redacted] this starter had about 80 hp but [redacted]

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M Project

4. [ ] this project [ ] consisted of two engines coupled by a gear box to deliver power to a single propeller shaft. [ ] they had experienced some failures during the testing of the M Project engines and that these failures had occurred in the gear box connecting the two engines. [ ] they had tried a hydro-abrasive process for polishing these gears.

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K Project

5. [ ] K Project engines and that "several" were under construction at Zaved 2 but that only one had been completed by June 1953 [ ] this one had been mounted on a test stand but had only been run at reduced power.

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6.

[ ] no knowledge of any variable angle blading being used in this engine. [ ] an attempt was made on one engine to divide the compressor into two parts and to accelerate the one part up to speed before starting to turn the other part. [ ] did not know where the compressor was divided or which part was started first, and [ ] this split compressor attempt was abandoned [ ] was because of excessive weight in the gearing mechanism to produce this separate acceleration. [ ] Turbine and compressor blades were formed in four steps. Three stamping operations produced the finished blade form and then the fir tree root was cut onto the root end.

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7. [ ] during the development of the O22 there was some emphasis placed on the reduction of fuel consumption.

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8. [ ] the jigs and fixtures were for the manufacture of parts for experimental engines, and although the drawings were sent to another plant, [ ] these same jigs would not be practical for series production.

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